

UČNI NAČRT PREDMETA / COURSE SYLLABUS

| | |
|---------------|---|
| Predmet: | Izbrana poglavja iz entomologije in varstva narave |
| Course title: | Selected Topics in Entomology and Nature Conservation |

| Študijski program in stopnja Study programme and level | Študijska smer Study field | Letnik Academic year | Semester Semester |
|---|-------------------------------|-------------------------|-------------------------------|
| Doktorski študij Ekološke znanosti, 3. stopnja | | 1. ali 2.; 1st or 2nd | 1. 2. ali 3.; 1st, 2nd or 3rd |
| Doctoral Study Ecological Sciences, 3rd degree | | | |

Vrsta predmeta / Course type

Izbirni/Elective

Univerzitetna koda predmeta / University course code:

| Predavanja Lectures | Seminar Seminar | Vaje Tutorial | Lab. vaje Laboratory work | Terenske vaje Field work | Samost. delo Individ. work | ECTS |
|------------------------|--------------------|------------------|------------------------------|--------------------------------|----------------------------------|------|
| 5 | 5 | | | | 140 | 5 |

Nosilec predmeta / Lecturer:

Dušan DEVETAK

Jeziki /

Predavanja / Lectures:

slovenski / Slovene

Languages:

Vaje / Tutorial:

slovenski / Slovene

Pogoji za vključitev v delo oz. za opravljanje

Prerequisites:

študijskih obveznosti:

Poznavanje organizmov in biodiverzitete na ravni univerzitetnega programa

Knowledge of organisms and biodiversity at graduate level

Vsebina:

Obravnavana so izbrana poglavja iz naslednjih sklopov.

- Pri predmetu je poudarek na obravnavi žuželk, čeprav se vsebine nanašajo na vse kopenske členonožce
- Členonožci (pajkovci, raki, stonoge in žuželke) imajo pomembno vlogo v procesih v kopenskih ekosistemih. Žuželke so vrstno najobsežnejša in zato vsestransko najpomembnejša skupina členonožcev. Razumevanju vloge žuželk za ekosfero je izhodišče za vse pomembnejše

Content (Syllabus outline):

Selected topics in the following chapters are discussed.

- In the subject, discussions on Insects are stresses, although the contents rely to all terrestrial arthropods
- Arthropods (arachnids, crustaceans, myriapods and insects) play important roles in terrestrial ecological processes. According to their species number, insects are the most numerous, and therefore the most important group of arthropods. Understanding of their roles in the

| | |
|--|---|
| <p>področje varovanja žuželk, ki se hitro razvija. Etični temelji varstva členonožcev</p> <ul style="list-style-type: none"> • Ciljne skupine členonožcev za naravovarstvene študije • Vzroki ogrožanja: od invazivnih rastlin do klimatskih sprememb • Metode: Vrednotenje ogroženih vrst in njihovih habitatov. Rdeči sezname in IUCN kategorije ogroženosti. Kartiranje, monitoring, varovanje • Ogroženi členonožci in njihovi habitat v Sloveniji. Naravovarstvena zakonodaja v Sloveniji | <p>ecosphaere is the starting point of rapidly developing, and most and most important field of Insect conservation biology. Ethical foundation of arthropod conservation</p> <ul style="list-style-type: none"> • Target arthropods groups for conservation studies • Threats: from invasive alien plants to climate change • Methodology: Evaluation of endangered species and their habitats. Red Data Lists and IUCN cathegories of endangerment. Mapping, monitoring, conservation • Endangered arthropods and their habitats in Slovenia. Nature conservation legislation in Slovenia |
|--|---|

Temeljni literatura in viri / Readings:

- Gaston K. J., T. R. New , M. J. Samways, 1994: Perspectives on insect conservation. Intercept Press, London.
- New, T. R., 1998: Invertebrate surveys for conservation. Oxford University Press, Oxford.
- Pullin, A., 1995: Ecology and conservation of butterflies. Chapman and Hall, London.
- Samways, M. J., 2005: Insect diversity conservation. Cambridge University Press, Cambridge.
- Samways, M. J., 1995: Insect conservation biology. Chapman and Hall, London.
- Stockland, J. N., J. Siitonens, B. G. Johnsson, 2012. Biodiversity in Dead Wood. Cambridge University Press. New York.
- New, T. R., 2009. Insect Species conservation. Cambridge University Press. New York.

Cilji in kompetence:

- Znati argumentirati, zakaj je varovanje členonožcev/žuželk žuželke pomembno
- Podrobno predstaviti vzroke ogrožanja vrst členonožcev
- Podrobno predstaviti metode dela - vrednotenje ogroženih vrst in njihovih habitatov, rdeči sezname in IUCN kategorije, kartiranje, monitoring, varovanje
- Podrobno poznati ogrožene členonožce in naravovarstveno zakonodajo

Objectives and competences:

- To argue, why conservation of insects/arthropods is important
- To present in detail the threats of endangerment of arthropods
- To present in detail methods – Evaluations, Red Data Lists and IUCN cathegories, mapping, monitoring, conservation
- To know in detail endangered arthropods and nature conservation legislation

Predvideni študijski rezultati:

Znanje in razumevanje:

Podrobna povezava med ogroženostjo vrst členonožcev in varovanjem njihovih habitatov
Podrobno razumeti vzroke ogrožanja
Podrobno poznati rdeče sezname in IUCN kategorije ogroženosti
Podrobno poznati kartiranje, monitoring, varovanje
Podrobno poznati ogroženost členonožcev v Sloveniji; naravovarstvena zakonodaja

Intended learning outcomes:

Knowledge and Understanding:

- Relations between arthropods species threatness and protection of their habitats
- To understand in detail reasons of threatness
- Advanced knowledge of Red Data Lists and IUCN cathegories
- Advanced knowledge of mapping, monitoring, conservation
- Advanced knowledge of endangered arthropods

| | |
|---|---|
| | in Slovenia and Nature conservation legislation |
| Prenesljive/ključne spretnosti in drugi atributi: | Transferable/Key Skills and other attributes: |

- Sposobnost prepoznati izbrane ogrožene členonožce Slovenije
- Sposobnost oceniti ogroženost izbranih členonožcev v določenem habitatu

Metode poučevanja in učenja:

- Predavanja
- Laboratorijske vaje

Learning and teaching methods:

| Načini ocenjevanja: | Delež (v %) / Weight (in %) | Assessment: |
|---|-----------------------------|---|
| <ul style="list-style-type: none"> • Kolokvij iz poznavanja žuželk • Seminarska naloga • Pisni izpit | 20 % 40 % 40 % | <ul style="list-style-type: none"> • Partial exam of knowledge of insects • Seminar essay • Written exam |

Reference nosilca / Lecturer's references:

1. DEVETAK, Dušan, KLOKOČOVNIK, Vesna, RAUSCH, Hubert, JANŽEKOVIČ, Franc. Fauna of the Neuropterida (Raphidioptera, Neuroptera) of the Protected area Jasen, Macedonia : a summer flash. *Turkish journal of zoology*, ISSN 1300-0179, 2014, str. 1-13, ilustr. <http://journals.tubitak.gov.tr/havuz/zoo-1305-43.pdf>, doi: [10.3906/zoo-1305-43](https://doi.org/10.3906/zoo-1305-43). [COBISS.SI-ID [20717576](#)], [JCR, SNIP]
2. DEVETAK, Dušan. Notes on Megaloptera and Neuroptera (Insecta: Neuropterida) of the Brdo pri Kranju estate (Slovenia). *Annales, Series historia naturalis*, ISSN 1408-533X, 2011, letn. 21, št. 1, str. 69-74, ilustr. [COBISS.SI-ID [2074579](#)]
3. DEVETAK, Dušan, PODLESNIK, Jan, JANŽEKOVIČ, Franc. Antlion Dendroleon pantherinus (Fabricius, 1787) (Neuroptera: Myrmeleontidae) in Slovenia = Volkec vrste Dendroleon pantherinus (Fabricius, 1787) (Neuroptera: Myrmeleontidae) v Sloveniji. *Acta entomologica slovenica*, ISSN 1318-1998, dec. 2010, vol. 18, št. 2, str. 159-162, ilustr. [COBISS.SI-ID [18005256](#)]